INTERNATIONAL SEARCH REPORT

n lonal Application No F., IB2004/000798

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01Q1/24 H01F H01P1/18 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) H01P H01Q Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data, INSPEC C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X EP 1 280 230 A (MATSUSHITA ELECTRIC IND CO 1-8 LTD) 29 January 2003 (2003-01-29) paragraph '0040!; figure 2 paragraphs '0044!, '0049!, '0054! '0053!, paragraphs '0062! - '0064!; figure 11 PATENT ABSTRACTS OF JAPAN 1 - 8A vol. 0173, no. 87 (P-1576), 20 July 1993 (1993-07-20) & JP 5 066252 A (JEOL LTD), 19 March 1993 (1993-03-19) abstract US 4 378 559 A (RITTENBACH OTTO E) Α 1-8 29 March 1983 (1983-03-29) column 2, line 8 - line 42; figures 1-3; table 1 Further documents are listed in the continuation of box C. Patent family members are listed in annex. ° Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the International "X" document of particular relevance; the claimed Invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. other means document published prior to the international filling date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 17 June 2004 30/06/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Pastor Jiménez, J-V Fax: (+31-70) 340-3016

INTERNATIONAL SEARCH REPORT				_ I, IB	I, IB2004/000798	
Patent document cited in search report		Publication date		Patent family member(s)	Publication date	
EP 1280230	A	29-01-2003	EP US CN WO	1280230 A1 6731920 B1 1366723 T 0176009 A1	29-01-2003 04-05-2004 28-08-2002 11-10-2001	
JP 5066252	A	19-03-1993	NONE			
US 4378559	A	29-03-1983	NONE			